SEAN BURGESS

sgburgess687.github.io | sgburgess687@gmail.com | Houston, TX

Languages & Aptitudes

Python (NumPy, pandas, Matplotlib, Seaborn, Scikit-Learn, PyTorch), SQL, Git, HTML, MS Office

Technical Skills

Regression (Linear, Logistic), Classification (K-NN, SVM, Random Forest), Data Cleaning & Interpretation

PROJECTS

Bayesian Analysis in Predicting Overconfidence   *Link*
- Simulated a population of entrepreneurs distributed among three skill types
- Tested a multitude of scenarios in which the entrepreneurs learn from prior experience
- Analyzed perceived skill distributions to understand apparent overconfidence

Currency Crises Predictions   *Link*
- Combined large data sets from the World Development Indicators DataBank
- Trained decision trees and identified accurate classifiers in MATLAB
- Predicted currency crises within rich countries

TradeStation Trading System
- Built a trading system using EasyLanguage
- Implemented a daily/weekly reversal using multiple data streams

EDUCATION

University of Houston   *Graduated 2020*

Mathematics, B.S.

Minor in Economics

Courses: Computer Science & Programming (Python), Intro to Programming (C++), Computing for Engineers (MATLAB), Advanced Linear Algebra, Probability, Statistics, Stochastic Processes

Udacity

Deep Learning Nanodegree

Skills Covered: Deep Learning, Neural Networks, CNNs, RNNs, GANs

EXPERIENCE

Mathematics Tutor   *Current*

FindTutors, Peer Tutoring
- Tutor in all areas of mathematics up to a high school level, such as pre-calculus and statistics
- Tutor former peers and colleagues in university level mathematics, such as probability and calculus

Trading Apprentice   *Current*
- Build trading systems using EasyLanguage and Python
- Backtest various portfolios using multiple strategies